

Operating instructions

Lift Table

HT 300 S, HT 300 M, HT 300 M PSR

HT 300 L, HT 300 L LAP, HT 600, HT 600 LAP



HT 300 S



HT 300 L



HT 300 M PSR



HT 600

HT-SERIES

Imprint

Product identification

Lift Table	Item number
HT 300 S	6100300
HT 300 M	6100310
HT 300 M PSR	6100315
HT 300 L	6100320
HT 300 L LAP	6100325
HT 600	6100600
HT 600 LAP	6100605

Manufacturer

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Indications regarding the operating instructions

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Subject to technical modifications and error.

Content

1 Introduction	3
1.1 Copyright	3
1.2 Customer service	3
1.3 Limitation of liability	3
2 Safety	3
2.1 Symbol explanation	3
2.2 Obligations of the operating company	4
2.3 Requirements to staff	5
2.4 Personal protective equipment	5
2.5 Safety instructions	5
2.6 General safety regulations	6
2.7 Safety regulations	7
2.8 Safety instructions for operating personnel	7
2.9 Safety labels on the lift table	8
3 Intended Use	8
3.1 Residual risks	8
4 Technical Data	9
4.1 Table	9
4.2 Type plate	9
5 Transport, packaging, storage	10
5.1 Transport	10
5.2 Packaging	10
5.3 Storage	10
6 Description of device	11
6.1 Function	11
6.2 Accessories work plates (optional)	11
7 Assembly	12
8 Commissioning	12
8.1 HT 300 M PSR: Disassembly and installation of the platform swivel device	12
9 Operation	13
9.1 Operating conditions	14
9.2 Test run	14
9.3 Using	14
9.4 Load or unload lifting table	14
9.5 Lifting and lowering the load	15
9.6 Moving the lift table	16
10 Care, maintenance and repair	16
10.1 Care by cleaning	16
10.2 Maintenance and service/repair	16
10.3 Servicing/repair	18
11 Checking the lift table	18
12 Disposal, recycling of used devices	18
12.1 Decommissioning	18
12.2 Disposal of lubricants	18
13 Troubleshooting	19
14 Spare parts	19
14.1 Ordering spare parts	19
14.2 Spare parts drawings	20
15 EU Declaration of Conformity	25

1 Introduction

You have made a good choice by purchasing the UNICRAFT lift table.

Read the operating manual thoroughly before commissioning the machine.

It gives you information about the proper commissioning, intended use and safe and efficient operation and maintenance of your lift table.

The operating manual is part of the lift table package. Always keep this operating manual in the location where your lift table is being operated. All local accident prevention regulations and general safety instructions for the operating range of your lift table must also be complied with.

1.1 Copyright

The contents of these instructions are copyright. They may be used in conjunction with the operation of the electric chain hoist. Any application beyond those described is not permitted without the written approval of Stürmer GmbH.

For the protection of our products, we shall register trademark, patent and design rights, as this is possible in individual cases. We strongly oppose any infringement of our intellectual property.

1.2 Customer service

Please contact your dealer if you have questions concerning your lift table or if you need technical advice. They will help you with specialist information and expert advice.

Germany:

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Dr.-Robert-Pfleger-Str. 26
D-96103 Hallstadt

Repair service:

Fax: 0049 (0) 951 96555-111
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We are always interested in valuable experience and knowledge gained from using the application-which then could be shared and be valuable to develop our products even further.

1.3 Limitation of liability

All information and notes in these operating instructions were summarised while taking applicable standards and rules, the state-of-the-art technology and our long-term knowledge and experiences into consideration.

In the following cases the manufacturer is not liable for damages:

- Non-observance of the operating instructions,
- Inappropriate use
- Use of untrained staff,
- Unauthorised modifications
- Technical changes,
- Use of not allowed spare parts.

The actual scope of delivery may deviate from the explanations and presentations described here in case of special models, when using additional ordering options or due to latest technical modifications.

The obligations agreed in the delivery contract, the general terms and conditions as well as the delivery conditions of the manufacturer and the legal regulations at the time of the conclusion of the contract are applicable.

2 Safety

This section provides an overview of all important safety packages for the protection of operating personnel as well as for safe and fault-free operation. Other task-based safety notes are included in the paragraphs of the individual phases of life.

2.1 Symbol explanation

Safety instructions

The safety notes in these operating instructions are highlighted by symbols. The safety notes are introduced by signal words which express the concern of the risk.



DANGER!

This combination of symbol and signal words indicates an imminently dangerous situation which may lead to death or severe injuries if they are not avoided.

**WARNING!**

This combination of symbol and signal words indicates a possibly dangerous situation which may lead to death or severe injuries if they are not avoided.

**CAUTION!**

This combination of symbol and signal words indicates a possibly dangerous situation which may lead to minor or light injuries if they are not avoided.

**ATTENTION!**

This combination of symbol and signal words indicates a possibly dangerous situation which may lead to property and environmental damages if they are not avoided.

**NOTE!**

This combination of symbol and signal words indicates a possibly dangerous situation which may lead to property and environmental damages if they are not avoided.

Tips and recommendations**Tips and recommendations**

This symbol highlights useful tips and recommendations as well as information for an efficient and trouble-free operation.

It is necessary to observe the safety notes written in these operating instructions in order to reduce the risk of personal injuries and damages to property.

2.2 Obligations of the operating company**of the operator**

The operating company is the person who operates the lift table for business or commercial reasons by herself, or leaves it to a third party for use or application, and who bears the legal product responsibility for the protection of the user, the staff or for third parties.

Obligations of the operating company

If the lift table is used for commercial purposes, the operating company of the lift table must comply with the legal working safety regulations. Therefore, the safety notes in this operating manual, as well as the safety, accident prevention and environment protection regulations applying for the area of application of the lift table must be met. The following applies in particular:

- The operating company must be informed about the applying industrial safety regulations and further analyse hazards resulting from the special working conditions at the place of use of the lift table. She must implement these in form of operating manuals for the operation of the lift table.
- During the entire lifetime of the lift table, the operating company must verify whether the operating manuals prepared by her correspond to the current status of the regulations, and must adapt these if necessary.
- The operating company must unambiguously regulate and determine the responsibilities for installation, operation, troubleshooting, maintenance and cleaning.
- The operating company must ensure that all persons who work with the lift table, have read and understood this manual. Furthermore she must instruct the staff in regular intervals and inform them about the hazards.
- The operator must provide the necessary protective equipment to the staff and order the use of the necessary protective equipment in a binding way.

Furthermore the operating company is responsible to keep of the lift table always in a technically flawless state. Thus, the following applies:

- The operator must ensure that the maintenance intervals described in this manual are kept.
- The operator must have all safety devices checked regularly for their good working order and their integrity.

2.3 Requirements to staff

Qualifications

The different tasks described in this manual represent different requirements to the qualification of the persons entrusted with these tasks..



WARNING!

Danger in case of insufficient qualification of the staff!

Insufficiently qualified persons cannot estimate the risks while using the lift table and expose themselves and others to the danger of severe or lethal injuries.

- Have all works only performed by qualified persons.
- Keep insufficiently qualified persons out of the working area.

Only persons reliable working procedures can be expected from, are allowed to perform all works. Persons the responsiveness of which is affected by e. g. drugs, alcohol or medication, are not allowed to work with the machine.

The qualifications of the personnel for the different tasks are mentioned below:

Operator:

The operator is instructed by the operating company about the assigned tasks and possible risks in case of improper behaviour. Any tasks which need to be performed beyond the operation in the standard mode must only be performed by the operator if it is indicated in these instructions and if the operating company expressly commissioned the operator.

Qualified personnel

Due to their professional training, knowledge and experience as well as their knowledge of relevant regulations the specialist staff is able to perform the assigned tasks and to recognise and avoid any possible dangers themselves.

Manufacturer

Certain works may only be performed by specialist personnel of the manufacturer. Other personnel is not authorized to perform these works. Please contact our customer service for the execution of all arising work.

2.4 Personal protective equipment

The personal protective equipment serves to protect persons against impairments of safety and health while working. The staff member has to wear personal protective equipment while performing different tasks on and with the machine which are indicated in the individual paragraphs of these instructions.

The personal protective equipment is explained in the following paragraph:



Safety boots

The safety boots protect the feet against crushes, falling parts and slipping over on slippery underground.



Protective clothes

Protective clothes are made of a tightly fitted fabric without the protruding parts of low tear strength.

2.5 Safety instructions

- The lift table may only be operated at sufficiently illuminated workstations.
- The lift table is intended for lifting, lowering and moving loads.
- The lift table may only be used for lifting loads on horizontal floors.
- The lift table may only be moved when the load is lowered.
- When lifting and lowering, the lift table must be freely positioned in the room, i.e. the positioning of the lift table must not cause any shearing or crushing edges.
- The max. load with load centre in the middle of the lift table must not be exceeded (If the lift table is loaded outside the load centre, the load is reduced to up to 33% of the maximum load).
- The maximum lifting load with load centre in the middle of the lift table must not be exceeded.
- The lift table is not intended for moving or transporting persons.
- The lift table must not be operated in potentially explosive work areas.
- The lift table may only be used for its intended purpose!

Misuse

The lifting table must not be used for any improper purpose! Misuse of the lift table is included, for example:

- Use in contravention of the regulations of the operating instructions,
- Use after unauthorized conversions or modifications,
- Exceeding the max. permissible load capacity,
- Enter the lift table,
- Transport or moving of persons with the lift table.

In case of misuse of the lift table, any warranty, liability and other claims for damages of the operator against the manufacturer are eliminated!

Modifications

Only use the lift table in its original condition, i.e. as supplied!

The components of the lift table must not be changed in their type and condition.

Use only spare parts (accessories) that comply with the specifications in the spare parts list. Deviations are not permitted!

Modifications or alterations by the operator without the written consent of the manufacturer are prohibited and eliminate all warranty, liability and other claims for damages by the operator against the manufacturer!

2.6 General safety regulations

- During transport, storage, installation, commissioning, operation, servicing, maintenance and troubleshooting of the lift table, compliance with the provisions of these operating instructions must be observed.
- The lift table may only be operated in a safe and proper condition. Its safe condition must be checked at least once a year by qualified personnel.
- Only qualified trained persons who have been instructed in the handling of the lift table to carry out work.
- Only qualified trained persons - minimum age 18 years - who are familiar with these operating instructions, in particular the safety regulations, should be authorized to do the work.
- All other regulations on work safety and accident prevention must be observed. The operator must issue operating instructions.

Obligations of the staff

The following general safety regulations must be observed:

The operator is responsible for the safe use of the lift table!

- Defective or missing safety devices must be repaired or replaced immediately by a specialist! The lift table must not be operated during this time!
- All activities which could endanger the safety of man and machine must be prohibited!
- All regulations in these operating instructions must be observed; the lift table may only be used for its intended purpose and not improperly!
- In the case of faults, take the lift table out of operation, eliminate the cause of the fault, rectify the fault, check the lift table for safe condition and only then put it back into operation!
- The operator must ensure that no unauthorized persons work on or with the lift table.
- It is not permitted to stand on load handling equipment. The transport and lifting of persons is prohibited.
- Set-up, modification, maintenance and inspection work may only be carried out by trained personnel.
- It is noted that any unauthorized modifications and alterations to the machine are not permitted for safety reasons.
- In the case of hydraulic repairs to accumulator systems, the accumulator must be emptied beforehand.
- The operating personnel must always ensure that the maximum load capacity is not exceeded.
- Do not stand under a suspended load as loose objects can fall down at any time.
- It is forbidden to access the device if it has not been secured by the maintenance support.

2.7 Safety regulations



ATTENTION!

Only use the lift table if you have familiarised yourself with it or have been instructed on it. Read the safety instructions on the lift table and in the instructions for use carefully. The instructions must be kept with the product for inspection.

- The valid accident prevention regulations are to be followed. If the lift table is intended for use by employees, it must be complied with in addition to the relevant labor law regulations, eg. For example, the accident prevention regulation General Regulations (VBG 1).
- Before using the lift table, make sure that it is technically correct. Pay special attention to the wheels, lifting and lowering device. Never use a damaged lift table. Make any repairs only by professionals.
- Never load the table with greater load or force than the maximum load capacity.
- Pay attention to uniform load distribution!
- Never lift a load when the lift table is on an unsuitable surface!
- Do not bring body parts (hands, fingers) under the table when a load is lifted!
- Never try to move a load lifted from the lift table on the table. A lifted load must never be exposed to shock or shock loads.
- Never lift a load that can slip, or whose parts are not firmly connected, with the lift table.
- Make sure that the operator of the lift table is always outside the range of a load that may slip or fall off the table.
- Never leave a load lifted by the lift table unattended.
- Make sure that the ground on which the lift table stands or where it is to be moved is sufficiently loadable. If not, the lift table must be placed on sufficiently solid wood or preferably metal planks and moved there. Such a measure must be checked by an expert before lifting and moving a load.
- When using the lift table, it must be ensured that the user can operate the lift table with the load without any problems.
- We point out that in case of improper use no liability for possible consequential damages can be assumed. This also applies to the use of the lift table that are not suitable for use, as well as any unauthorized alteration to the design, in particular for the replacement of original parts with parts of other origin.

2.8 Safety instructions for operating personnel

No operational mode which could compromise the safety of the lift table lift platform may be undertaken.

The operator must also ensure that no unauthorised persons work on the machine (e.g. also by actuating devices to prevent unauthorised use).

The operator is responsible for checking the machine at least once a day (before use) for externally visible damage and defects, and for immediately reporting any changes (including operating behaviour) that impair safety.

The operator must ensure that the machine is always operated in perfect condition.

If necessary, the operating personnel must be required to wear protective clothing etc..

Safety devices must not be disassembled or put out of operation (even here, specific reference must be made to imminent hazards, e.g. imminent severe crushing, loss of sight, danger to life).

If it is necessary to de-install safety devices during set-up, repair and maintenance, the safety devices must be re-installed immediately after completion of the maintenance or repair work.

2.9 Safety labels on the lift table

Several safety labels are attached to the lift table which must be observed and followed (Fig. 1).



Fig. 1: Safety labels: 1 Prohibition sign with reference I
 2 Prohibition sign I 3 mandatory sign Wear safety shoes I
 4 Warning of danger of crushing the upper limbs

The safety labels attached to the device must not be removed. Damaged or missing safety markings can lead to incorrect actions, personal injury and damage to property. They must be replaced immediately.

If the safety markings are not recognizable and understandable at first glance, the device must be taken out of operation until new safety labels have been applied.

3 Intended Use

The lift table is used exclusively for lifting, lowering and transporting loads up to the specified maximum load, or as a height-adjustable worktable. The permissible load distribution and centre of gravity position must be observed.

Transport may only take place with the load lowered. The lift table may only be operated on firm, level ground, in perfect condition and only by instructed persons.

Intended use also includes compliance with all information in these instructions. Any use beyond the intended use or any other use is considered misuse.

Misuse:

- Lifting, moving and transporting of persons
- Operation in potentially explosive areas



DANGER!

The lift table is not explosion-proof as standard and must not be operated in potentially explosive areas!

Stürmer Maschinen GmbH accepts no liability for design and technical changes to the lift table.

Claims of any kind due to damage due to improper use are excluded.

3.1 Residual risks



CAUTION!

Please notice that every machine has residual risks. Great care must be taken when carrying out all operations (even the simplest ones). Safe working depends on you!

Consequences of non-compliance:

If the lift table is operated, serviced or repaired incorrectly, improperly or misused, or if it does not comply with the safety regulations or if it is not used for its intended purpose, the following will occur

- Dangers to the health of operating personnel,
- Dangers to the lift table and objects in its area.
- The manufacturer is not liable for any damage to the function of the lift table resulting from this.

4 Technical Data

4.1 Table

Type	HT 300 S	HT 300 M	HT 300 M PSR	HT 300 L	HT 300 L LAP	HT 600	HT 600 LAP
Length (product) approx. [mm]	970	1200	1200	1900	2000	1900	2000
Width/Depth (product) approx. [mm]	590	740	740	740	1000	740	1000
Height (product) approx. [mm]	400	400	400	400	430	400	430
Weight (net) approx. [kg]	60	80	80	140	188	190	238
Load capacity [kg]	300	300	300	300	300	600	600
Table height min. [mm]	400	400	400	400	430	400	430
Table height max. [mm]	1010	1010	1010	1010	1040	1010	1040
Roll diameter [mm]	125	125	125	125	125	125	125
Max. plate weight for swivel frame [kg]			120				
Length swivel frame [mm]			1800				
Width swivel frame [mm]			1500				

Required space, load capacity and condition of the substrate:

Type	HT 300 S	HT 300 M	HT 300 M PSR	HT 300 L	HT 300 L LAP	HT 600	HT 600 LAP
Required space (BxWxT) [mm]	1000 x 400 x 610 with work table	1200 x 400 x 740 without work table	1200 x 400 x 740 without platform swivel unit	1010 x 420 x 2010 with work table	1010 x 420 x 2010 with work table	1010 x 420 x 2010 with work table	1010 x 420 x 2010 with work table
Load capacity	Concrete classification B15						
Condition	flat, even, non-slip, incline-free						

4.2 Type plate

Hubtisch
Lift table

Typ
Type **HT 300 S**

Artikel-Nr.
Item no. **6100300**

Hubkategorie
Lift category **1**


Tragkraft
Capacity **300 kg**

Serien-Nr.
Serial no.

Baujahr
Year of manufacture

Gewicht
Weight **60 kg**

CE



Stürmer Maschinen GmbH
Dr.-Robert-Pfleger-Str. 26, 96103 Hallstadt
Deutschland / Germany

Fig. 2: Type plate of the lift table HT 300 S

5 Transport, packaging, storage

5.1 Transport

Check the lift table on delivery for any visible transportation damage. If you notice any damage to the device please report this immediately to the carrier or dealer.



NOTE!

Protect the lift table from moisture.

Unloading the lift table

Only trained unloading personnel may be used for the following work!



WARNING!

Danger of injury when unloading or transporting the lift table. The weight of the lift table may cause it to fall!

- Only use approved, tested hoists and load handling attachments with a load capacity of at least 1000 kg.
- Do not stand under the load when lifting and setting down! Direct persons standing nearby out of the danger area.
- Only transport the lifting table on level, firm ground!
- Wear safety boots with steel caps!

Unloading with a forklift

Move the forks to the centre of the intended positions on the pallet of the lift table and lift carefully. Carefully lift the lift table from the truck, note the weight of the lift table!

Transport

Transport to the installation site by forklift truck or pallet truck in accordance with the general safety regulations.

Unpacking

Lift the lift table from the transport pallet using a forklift forklift. Move the forks centrally under the long side of the lift table and lift carefully. Carefully lift the lift table off the transport pallet. Note the weight of the lift table! Remove the transport pallet and place the lift table on the ground.

5.2 Packaging

All used packaging materials and packaging aids are recyclable and should be taken to a materials recycling depot to be disposed of.

The delivery packaging is made of cardboard, so please dispose carefully by having it chopped up and given to the recycling collection.

The film is made of polyethylene (PE) and the cushioned parts of polystyrene (PS). These materials should be taken to a collection point for recyclable materials or to the local waste disposal company.

5.3 Storage

Short-term storage

- dry
- protect the lift tables from corrosion
- in a stable place.

Oil the lift table and store it in a frost-free and dry environment.

Long-term storage

- dry
- protect the lift tables from corrosion
- protect the lift tables from contaminants
- in a stable place.

Store the lift table only with the scissor lift lowered and the drain valve closed. Do not place anything on the lift table.

6 Description of device

Illustrations in these operating instructions are for basic understanding only and may differ from the actual version.

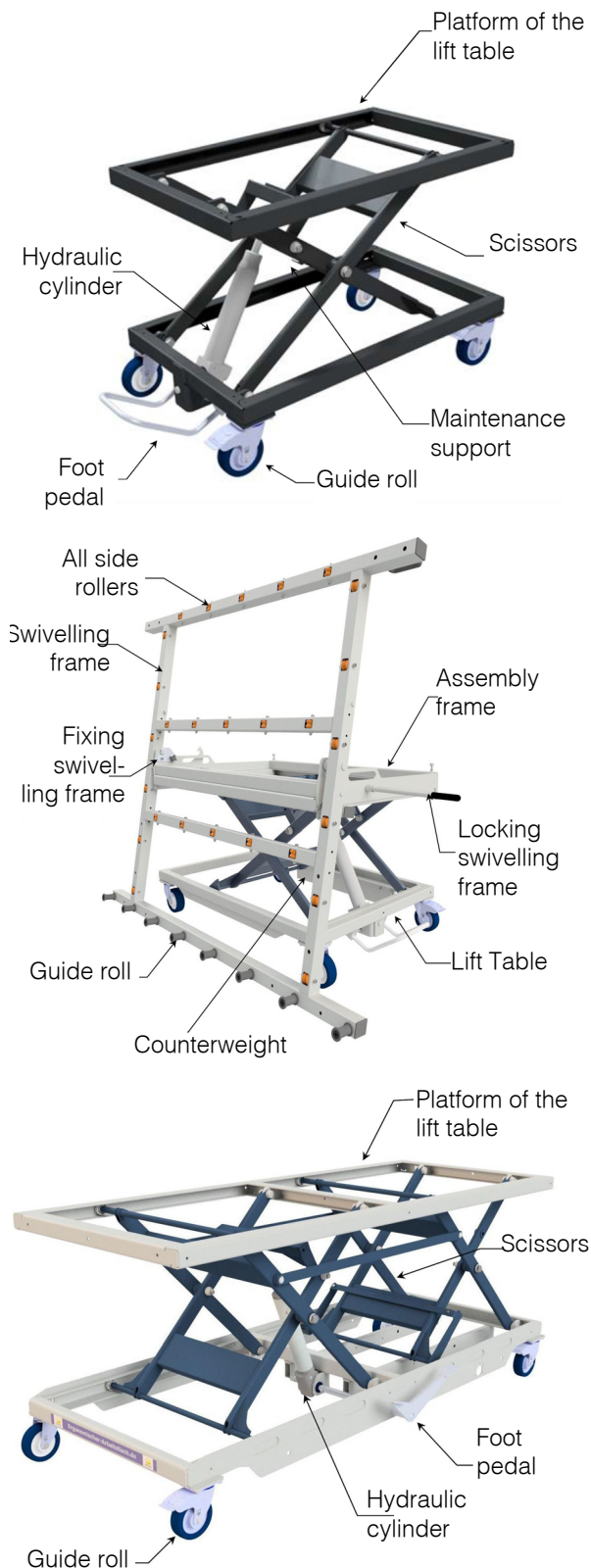


Fig. 3: Description of devices HT 300 S and HT 300 M (top), HT 300 M PSR (center), HT 300 L (bottom)

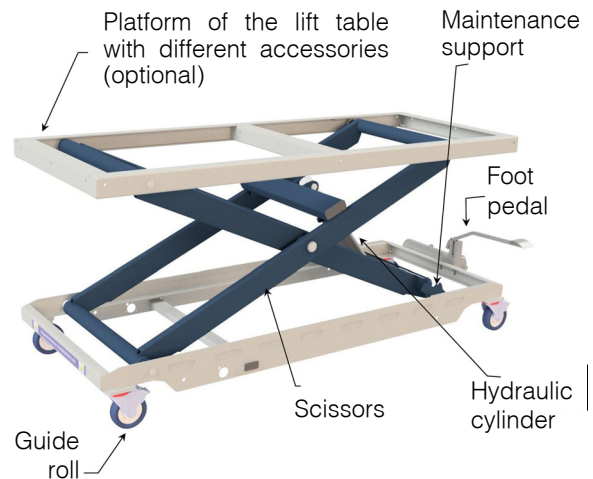


Fig. 4: Description of the lift table HT 600

6.1 Function

The height adjustment of the lifting table is based on the scissor principle. By actuating the foot pedal downwards, the scissors are moved by hydraulic force and the lift table platform moves upwards. When the foot lever is released, the lift table movement comes to a standstill and the lift table platform remains in this position. By lifting the foot lever, the lift table platform is lowered for the duration of the operation.

The hydraulic power is transmitted via the foot pump to the hydraulic cylinder. Foot pump and hydraulic cylinder are a fixed unit.

HT 300 M PSR

- Provides one person with easy loading of panels onto the platform frame and pivoting from vertical to horizontal position
- Swivel frame with two layer locking in vertical and horizontal position

6.2 Accessories work plates (optional)

HT 300 S

- Smooth metal work plate, 1000 x 600 mm
- Beech multiplex work plate, 1250 x 800 mm
- Beech multiplex hole grid work plate, 1250 x 800 mm

HT 300 M

- Beech multiplex hole grid work plate, 1600 x 790 mm

HT 300 M PSR

- with swivelling frame (scope of delivery)

HT 300 L

- Different work plates can be mounted on the base frame

HT 300 L LAP

- Beech multiplex hole grid work plate, 2000 x 1000 x 30 mm (scope of delivery)

HT 600

- Different work plates can be mounted on the base frame

HT 600 LAP

- Beech multiplex hole grid work plate, 2000 x 1000 x 30 mm (scope of delivery)

7 Assembly

The lift table is delivered ready assembled.

8 Commissioning

All work on commissioning the lift table may only be carried out by qualified personnel.

All functions of the lift table must be checked before commissioning.

The lift table must be stable and set up in such a way that no crushing or shearing points occur between the lift table or the load and parts of the environment. During normal operation, it must be possible to carry out activities on the lift table or load without difficulty.

The following installation and operating conditions must be observed:

- The integration of the lift table into the existing machinery must be carried out in such a way that the basic safety requirements of the EC Machinery Directive 2006/42/EC are observed (must be checked by the operator of the lift table).
- the environment must not be potentially explosive
- These operating instructions and any other associated operating instructions must be read and understood.

8.1 HT 300 M PSR: Disassembly and installation of the platform swivel device



CAUTION!

The operator must take into account the weight of the individual parts (approx. 25 kg each). The work sequence must be strictly adhered to.



Use protective gloves!



Wear safety boots!

The following steps must be followed to disassemble the platform swivel device from the lifting table:

Step 1: Loosen the screws to fix the swivel frame (Fig. 5, arrow) on both sides of the swivel frame and slide the fixing plates backwards so that the bolts of the swivel frame are free at the top.

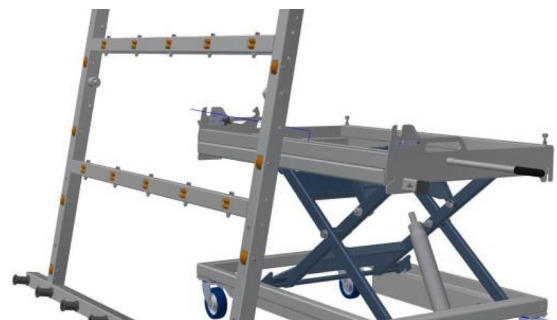


Fig. 5: Disassembly of the platform swivel device

Step 2: Lift the swivel frame upwards out of the bearing and remove it from the front (Fig. 5 below).

Step 3: Move the swivel frame to the side.



Fig. 6: Disassembly of the swivel device

Step 4: Slightly loosen the fastening screws of the swivel device at the front and rear of the lifting table, swivel the swivel device upwards and pull it upwards out of the fastening screws.

Step 3: Move the swivel device to the side.

Now the lift table with the suitable platform can be used as a lift table.

The platform swivel device is reassembled in the reverse sequence to the disassembly described above.

9 Operation



CAUTION!

Before operating the lift table, the operator must ensure that there is no danger from the movement of the lift platform.



DANGER!

DANGER TO LIFE DUE TO FALLING OF THE LOAD!

Falling loads can cause serious injury or death. .

- Never exceed the specified maximum load.
- Never move the lifted load.
- Never work under the lifted load.
- Observe the load manufacturer's instructions on the load application point.
- Distribute the weight centrally on the table of the lift table
- Only lift loads with the lift table on a horizontal, level and firm surface.
- Do not lift any persons individually or together with the load.
- When leaving the workplace, lower the load if it is not additionally mechanically secured.



Use protective gloves!



Wear safety boots!



Wear protective clothes!

9.1 Operating conditions



NOTE!

- The operating personnel must be familiar with the operation and functions as well as the safety regulations when operating the lift table.
- The operator must provide the necessary instruction for the operating personnel.

The working area must be dry, fire and explosion protected and free of corrosive and toxic substances.

The working area must be adequately illuminated.

Dangerous goods such as flammable, toxic or radioactive materials must not be lifted with the lift table.

9.2 Test run

Before operation under load, carry out a test with testing of all functions without load.

9.3 Using



NOTE!

Check that no component is rusted, damaged or broken. A lift table with one or more of these characteristics must not be used.

Without any load on the table, check that the foot pedal for the hydraulic pump can be moved freely and smoothly and does not jam at any point in the adjustment range.

The lift table can be used for all work which corresponds to the intended use in the chapter of the same name. It can therefore be used as work equipment for lifting and lowering loads, as well as a height-adjustable assembly table.

The lift table must not be used for work if this does not correspond to the intended use of the lift table.

In order to protect the wheels and chassis of the lift table, no large uneven surfaces (potholes, thresholds, etc.) should be driven over.

9.4 Load or unload lifting table

When loading or unloading the lift table, the permissible load balancing must be observed and followed. The load applied to the lift table must be secured against falling by suitable equipments. However, it is usually not necessary to secure the load. It is only necessary for loads that have an unstable position on the lift platform (e.g. rolling elements).

Load balancing

The nominal load of the lift table is based on a load evenly distributed on the platform. If this nominal load is not evenly distributed on the platform, the nominal load must be reduced as shown in the figures below.

Evenly distributed:

The load is distributed over the complete platform. 100% of the nominal load is permitted.

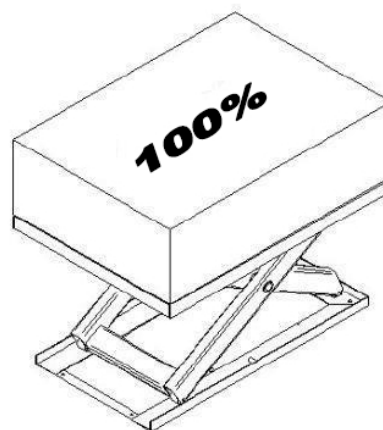


Fig. 7: Evenly distributed

Unevenly distributed in transverse direction:

The load is distributed over half of the platform (transverse direction). 50% of the nominal load is permitted.

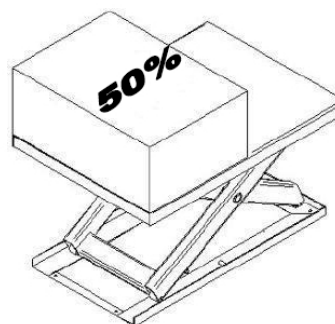


Fig. 8: Unevenly distributed in transverse direction

Unevenly distributed longitudinal direction:

The load is distributed over half of the platform (longitudinal direction). 33% of the nominal load is permitted.

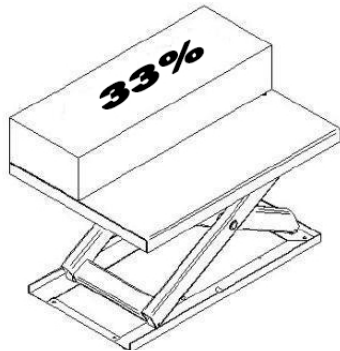


Fig. 9: Unevenly distributed longitudinal direction

9.5 Lifting and lowering the load

Lifting

Before the lift table platform is raised, the lift table must first be fixed in place by the rollers.

By repeatedly pressing the lever (Fig. 10), the platform moves upwards. Lock the brakes before lifting and lowering loads.



Fig. 10: Lifting the lift table: HT 300 (top), HT 300 L (bottom)



Fig. 10: Lifting the lift table: HT 600

Make sure that you do not place any body parts (hands, legs, etc.) under the table when the load is lifted. There is a high risk of injury!

Lowering

The same requirements that applied in the previous chapter apply here.

By lifting the lever (Fig. 11) the platform moves downwards (HT 300 S, M, M PSR, HT 600).



Fig. 11: Lowering the lift table: HT 300 S, M, M PSR (top), HT 600 (bottom)

Modell HT 300 L:

When the lever (Fig. 12) is actuated, the platform moves downwards (HT 300 S, M, M PSR, HT 600).



Fig. 12: Lowering the lift table: HT 300 L



CAUTION!

Risk of crushing!

When the load is lowered, the upper and lower limbs may be crushed.

- Do not hold the upper and lower limbs between the load and the ground when the load is lowered.



NOTE!

The operator must have sufficient freedom of movement.

Lifting and lowering the load can be interrupted at any stage of the operation. The load is held securely in its current position.

Never work under the lifted load!

When leaving the workplace, lower the load if it is not secured mechanically!

9.6 Moving the lift table

Before the lift table is moved, the load must always be lowered completely. Furthermore, the load must be secured against slipping and falling before the lift table is moved.

10 Care, maintenance and repair

10.1 Care by cleaning

The lift table must always be kept in a clean condition.



Use protective gloves!



NOTE!

Never use strong cleaning agents for any cleaning work. This can lead to damage or destroy the device.

All plastic and lacquered surfaces should be cleaned using a soft, damp cloth and a neutral cleaning agent.

Remove any excess lubricant or leaked oil using a dry, lint-free cloth.

10.2 Maintenance and service/repair



ATTENTION!

The mechanical and general condition of the lift table must be checked by a specialist workshop at least every 12 months.

If maintenance or repair work has been carried out on the lift table, a function test must then be carried out.

- It is forbidden to reach into the lift if it is not secured by the maintenance support.
- Wear suitable protective clothing
- wear safety shoes

Maintenance and repair work may only be carried out by competent, trained and instructed personnel. Energy supply systems must be interrupted. If necessary, further operating instructions must be observed.

Secure the lift table with the maintenance supports:

- Remove load from the lift table
- Folding down the maintenance supports of the lift table
- Lower the lift table, until the maintenance supports block the further lowering.

Daily maintenance:

- Check all components for damage and have them replaced by qualified personnel if necessary..

Monthly maintenance::

- Slightly lubricate the rollers and bearings.

Yearly maintenance:

- Carry out and document lift table inspection in accordance with regulations.
- Models HT 600 and HT 600 LAP:
Change hydraulic oil

Move the platform slightly upwards to fold in the maintenance supports.

If maintenance or repair work has been carried out on the lift table, a function check must then be carried out.

- It is forbidden to access the lift table if it is not secured by the safety support.
- Wear suitable protective clothing.
- Wear safety shoes
- Before working on the hydraulic system, depressurise it by lowering the lifting table onto the safety supports.

If the lift table is used **very frequently** or regularly under "**difficult operating conditions**" (e.g. in particularly dusty environments, under the influence of chemicals or vapours, etc.), the inspection should be carried out at shorter intervals.

If you have any questions about the condition of the lift table, please contact a specialist workshop.

If the lift table does not function properly, contact a specialist dealer or our customer service. Contact details can be found in chapter 1.2 Customer service.

All protective and safety devices must be reinstalled immediately after completion of repair and maintenance work.

Step 1: Lubricate all moving parts of the lift table with high quality grease.

Step 2: Check the lift table for external damage before each use.

Step 3: Models HT 600 and HT 600 LAP: Check the hydraulic oil level at regular intervals.

Step 4: Make sure that all safety notices on the lift table are clearly legible.

Check oil level (only models HT 600 and HT 600 LAP) /

Oil changes



NOTE!

The hydraulic cylinders (with integrated pump) of the HT 300 series (HT 300 S, HT 300 M and HT 300 L) are maintenance-free. If an oil leak occurs, the cylinder must be replaced.



NOTE!

HT 600 and HT 600 LAP: The oil level must be checked by a specialist workshop or specialist at least once a year.

Step 1: Lower the lift table and open the cap on the pump tank filler neck.

For oil change: Drain used oil.

Step 2: Top up oil (HLP 32) if necessary or when changing oil. Oil tank volume: 1 litre.

Oil quantity in the hydraulic cylinder:
max. 0.66 litres.

Step 3: Close the filler neck and lift and lower the lift table several times. Check the oil level again and screw in the screw plug again.

Step 4: Bleed the hydraulic system (see "Venting").

Venting (only Models HT 600 and HT 600 LAP)

After some time, or after filling with oil, air bubbles may form in the hydraulic system of the lift table and affect its function.

Step 1: Lower the lift table to min. height

Step 2: Slowly and carefully open the oil filler plug to allow the trapped air to escape.

Step 3: Check the lift table for proper function, repeat if necessary.



Oil, grease and cleaning agents are hazardous to the environment and must not be added to waste water or normal household waste. Dispose of these agents in an environmentally friendly manner.



WARNUNG!

The cleaning cloths soaked in oil, grease or cleaning agents are easily combustible. Collect the rags or the cleaning wool in a suitable, closed container and dispose of them in an environmentally friendly manner - do not dispose of them with your household waste!

10.3 Servicing/repair

Infolge von Verschleiß kann es vorkommen, dass an As a result of wear and tear, maintenance work may have to be carried out on the lift table.



NOTE!

Servicing work may only be carried out by qualified personnel with mechanical knowledge!

11 Checking the lift table

The lift table must be checked by a qualified person to ensure that it is in a safe working condition, in accordance with the provisions of the German Industrial Safety Regulations and the BGR 500, Chapter 2.10, Paragraph 2.9, before commissioning and as required at intervals of no more than 1 year. A person can be regarded as qualified if he / she has at least the qualification that was previously provided to the expert. The scope of the test and the inspection deadlines are governed i.a. according to the results of the risk assessment to be carried out. Check intervals, the operator can assume that these measures are sufficient. Type, extent and deadlines of the tests described in the BGR 500 are previous practice and comply with the rules of technology. The test is essentially a visual and functional test. It covers the examination of the condition of the components and equipment, the completeness and effectiveness of the safety equipment and the completeness of the test book. If a test period of no more than one year is adhered to, the operator can assume that this period is adequate. Verification of scissor lift tables must be verified by a log book.

12 Disposal, recycling of used devices

Please take care in your own interest and in the interest of the environment that all component parts of the machine are only disposed of in the intended and permitted way.

12.1 Decommissioning

Immediately decommission used machines in order to avoid later misuse and endangering of the environment or of persons.

Step 1: Eliminate all environmentally hazardous operating materials from the used device.

Step 2: If required, disassemble the machine into easy-to-handle and usable components and parts.

Step 3: Dispose of machine components and operating materials by the disposal channels provided.

12.2 Disposal of lubricants

Remove any leaking, used or excessive grease at the lubricating points.

Disposal notes for used lubricants are available from the manufacturer of the lubricants. If necessary, request the product-specific data sheets.

13 Troubleshooting

Faults	Possible cause	Solution
The lift table does not lower completely	Maintenance support not folded in	Slightly raise the lift table, fold in the maintenance support.
	Clamped part in the lift table scissors	Slightly raise the lift table, remove part.
The lift table cannot be raised	The lift table overloaded	Reduce the load
	Defective pump	Replace the pump

14 Spare parts



DANGER!

Risk of injury due to the use of wrong spare parts!

Dangers may result for the user and damages as well as malfunctions may be caused by using wrong or damaged spare parts.

- Only use original spare parts of the manufacturer or spare parts admitted by the manufacturer.
- Always contact the manufacturer in case of uncertainties.



Tips and recommendations

The manufacturer's warranty will become null and void if non-permissible spare parts are being used

14.1 Ordering spare parts

The spare parts may be purchased with the authorised dealer or directly with the manufacturer. Please find the corresponding contact data in Chapter 1.2 Customer service.

Indicate the following basic information for requests or orders of spare parts:

- Type of device
- Item No.
- Position No.
- Year of construction:
- Quantity
- Required mode of dispatch (mail, freight, sea, air, express)
- Address of dispatch

Spare part orders which do not include the above indications may not be taken into consideration. If the indications regarding the mode of dispatch are missing, the product is dispatched at the discretion of the supplier.

You will find information regarding the device type, item No. and year of construction on the type plate which is fixed on the lift table.

Example

The guide roll for the lift table HT 300 S bestellt werden. The guide roll have the position number 13 in the spare parts Drawing.

When ordering spare parts, send a copy of the spare parts drawing with the marked component (guide roll) and marked item number 13 to the authorised dealer or to the spare parts department and provide the following information:

- Type of device: **Lift Table HT 300 S**
- Artikelnummer: **6100300**
- Position number: **13**

In case of service, the following drawing shall help to identify the necessary spare parts.

14.2 Spare parts drawings

HT 300 S

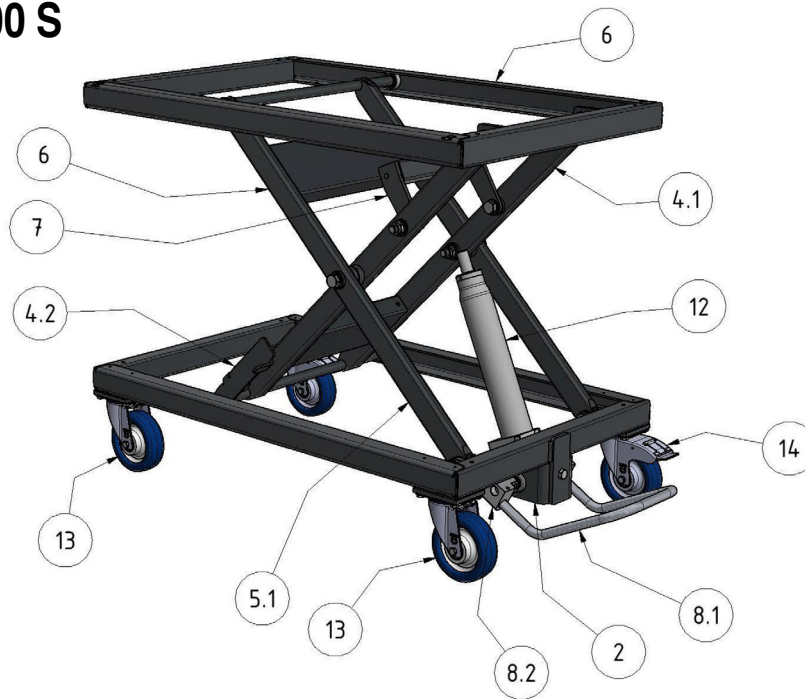


Fig. 13: Spare parts drawing HT 300 S

Pos.	Item number	Description	Pos.	Item number	Description
1	19 001 001 02	Sticker	5.5	ISO 4014 - M16 x110	Hex bolt
2	19 001 009 00	Cylinder holder	5.6	ISO 4014 - M16 x 65	Hex bolt
3	19 001 011 00-AA	Base frame	6	19 001 041 00-AA	Support frame
4	19 001 020 00-AA	Scissors small cpl	7	19 001 051 00-AA	Pressure fork
4.1	19 001 021 00-AA	Scissors small	8	19 001 060 00	Foot bar
4.2	19 001 022 00-AA	Locking lever	8.1	19 001 060 02	Foot bar
4.3	DIN 125 - A17	Washer	8.2	19 001 060 03	Fastening
4.4	DIN 625 T1 - 6203 - 2RS	Deep groove ball bearing	8.3	DIN 913 - MS x 20	Threaded pin
4.5	ISO 10511 - M16	Hex nut	8.4	ISO 4032 - MS	Hex nut
4.6	ISO 4014 - M16 x 65	Hex bolt	8.5	ISO 4762- MS x 45	Allen® screw
4.7	ISO 4017 - M16 x 45	Hex bolt	9	ISO 4017 - M12 x 30	Hex nut
5	19 001 030 00-AA	Scissors large cpl	10	ISO 4017 - MS x 10	Hex nut
5.1	19 001 031 00-AA	Scissors large	11	ISO 4762- MSx12	Allen® screw
5.2	DIN 125 - A17	Washer	12	Power Packer DSC0101-12-S2	Medipack
5.3	DIN 625 T1 - 6203 - 2RS	Deep groove ball bearing	13	Torwegge L-IL-PUZK-125-K-3	Guide roll
5.4	ISO 10511 - M16	Hex nut	14	Torwegge L-IL-PUZK- 125-K-3-DSN	Guide roll with brake

HT 300 M



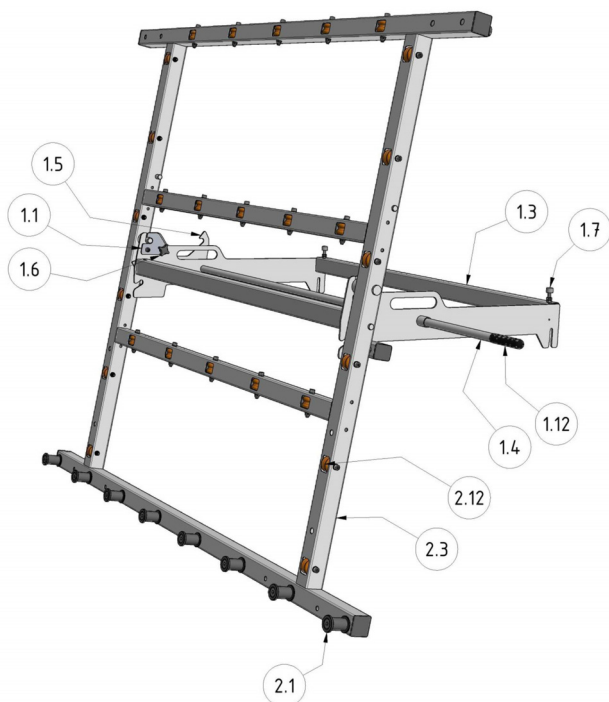
Fig. 14: Spare parts drawing HT 300 M

Pos.	Item number	Description	Pos.	Item number	Description
1	19 001 001 02	Sticker	5.8	ISO 4017 - M16 x 45	Hex bolt
2	19 001 009 00	Cylinder holder	6	19 020 030 00-AA	Scissors large cpl
3	19 001 060 00	Base frame	6.1	19 020 031 00-AA	Scissors large
3.1	19 001 060 02	Foot bar	6.2	DIN 125 - A17	Washer
3.2	19 001 060 03	Foot bar	6.3	DIN 625 T1 - 6203 - 2RS	Groove ball bearing
3.3	DIN 913 - M8 x 20	Fastening	6.4	ISO 10511 - M16	Hex nut
3.4	ISO 4032 - M8	Threaded pin	6.5	ISO 4014 - M16 x110	Hex bolt
3.5	ISO 4762- M8 x 45	Allen® screw	6.6	ISO 4014 - M16 x 65	Hex bolt
4	19 020 011 00-AA	Base frame	7	19 020 041 00-AA	Support frame
5	19 020 020 00-AA	Scissors small cpl	8	19 020 051 00-AA	Pressure fork
5.1	19 020 021 00-AA	Scissors small	9	ISO 4017 - M8 x 10	Hex nut
5.2	19 020 061 00	Locking lever right	10	ISO 4017 - M12 x 30	Hex nut
5.3	19 020 063 00	Locking lever left	11	ISO 4762- M8 x12	Allen® screw
5.4	DIN 125 - A17	Washer	12	PowerPackerDSCO101-12-82	Medipack
5.5	DIN 625 T1 - 6203 - 2RS	Deep groove ball bearing	13	Torwegge L-IL-PUZK-125-K-3	Guide roll
5.6	ISO 10511 - M16	Hex nut	14	Torwegge L-IL-PUZK-125-K-3-DSN	Guide roll with brake
5.7	ISO 4014 - M16 x 65	Hex bolt			

HT 300 M PSR



Pos.	Item number	Description
1	19 001 001 02	Sticker
2	19 001 009 00	Cylinder holder
3	19 001 060 00	Foot bar
3.1	19 001 060 02	Foot bar
3.2	19 001 060 03	Fastening
3.3	DIN 913 - M8 x 20	Threaded pin
3.4	ISO 4032 - M8	Hex nut
3.5	ISO 4762- M8 x 45	Allen® screw
4	19 020 011 00-AA	Base frame
5	19 020 020 00-AA	Scissors small cpl
5.1	19 020 021 00-AA	Scissors small
5.2	19 020 061 00	Locking lever right
5.3	19 020 063 00	Locking lever left
5.4	DIN 125 - A17	Washer
5.5	DIN 625 T1 - 6203 - 2RS	Groove ball bearing
5.6	ISO 10511 - M16	Hex nut
5.7	ISO 4014 - M16 x 65	Hex bolt
5.8	ISO 4017 - M16 x 45	Hex bolt
6	19 020 030 00-AA	Scissors large cpl
6.1	19 020 031 00-AA	Scissors large
6.2	DIN 125 - A17	Foot bar
6.3	DIN 625 T1 - 6203 - 2RS	Foot bar
6.4	ISO 10511 - M16	Hex nut
6.5	ISO 4014 - M16 x110	Hex bolt
6.6	ISO 4014 - M16 x 65	Hex bolt
7	19 020 041 00-AA	Support frame
8	19 020 051 00-AA	Pressure fork
10	ISO 4017 - M8 x 10	Hex nut
9	ISO 4017 - M12 x 30	Hex nut
11	ISO 4762- M8 x12	Allen® screw
12	DSCO101-12-82	Medipack
13	L-IL-PUZK-125-K-3	Guide roll
14	L-IL-PUZK-125-K-3-DSN	Guide roll with brake



Pos.	Item number	Description
1	19 020 282 00	Support frame
1.1	19 020 282 02	Safety guard
1.2	19 020 282 03	Threaded plate
1.3	19 020 283 00	Support frame
1.4	19 020 287 00	Manual override Locking device
1.5	19 020 289 00	Locking device
1.6	GN6335-4-SK-40-M8-20	Cross grip screw
1.7	GN 806-19-A	GN 806 A
1.8	ISO 4017 - M8 x 40	Hex bolt
1.9	ISO 4017 - M8 x 60	Hex bolt
1.10	ISO 4032 - M8	Hex nut
1.11	ISO 4762- M8 x16	Allen® screw
1.12	G-20100-1	Smooth handle
1.13	50x40x3	Tube cap
2	19 020 284 00	Swivel frame
2.1	19 020 284 01	Plastic roll
2.2	19 020 284 03	Spacer
2.3	19 020 285 00	Swivel frame
2.4	DIN 125 - A 6,4	Washer
2.5	GN 725-117-M6	Handle
2.6	ISO 10511 - M12	Hex nut
2.7	ISO 10511 - M8	Hex nut
2.8	1SO 10642- M12x120	Hex nut with coun- tersunk head
2.9	ISO 4762- M6 x16	Allen® screw
2.10	ISO 4762- M8 x 65	Allen® screw
2.11	50x50x2	Tybe cover
2.12	Traporol ARS 40.0	All-side roller

Fig. 15: Spare parts drawing HT 300 M PSR

HT 300 L

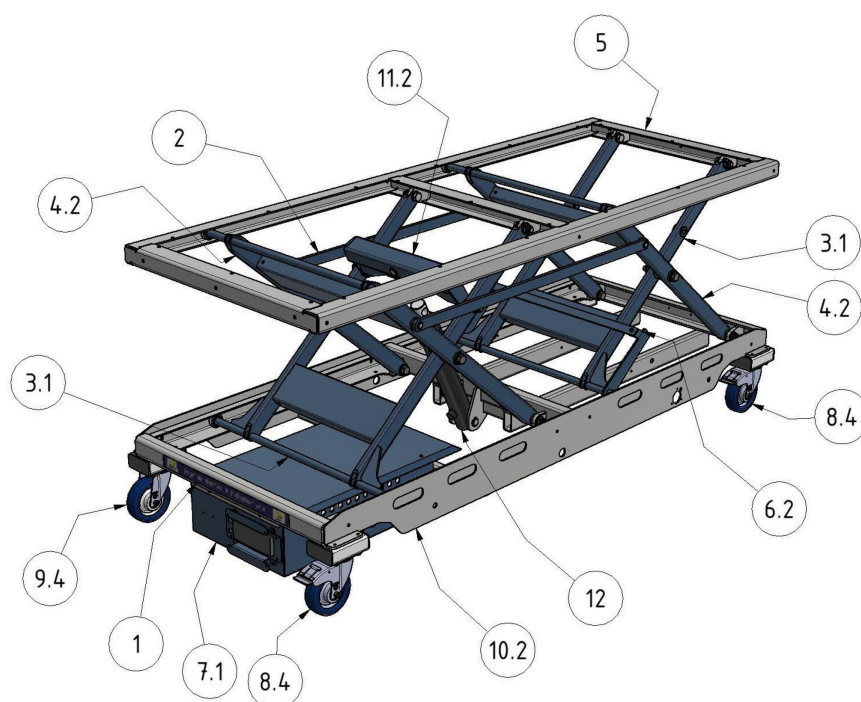


Fig. 16: Spare parts drawing HT 300 L

Pos.	Description	Pos.	Description
1	Sticker	7.2	Cover
2	Push rod	7.3	Hex Allen® Head Screw
3	Scissors small cpl	7.4	Hex Allen® Head Screw
3.1	Scissors small	8	Wheel base
3.2	Washer	8.1	Rectangular tube
3.3	Groove ball bearing	8.2	Hex bolt
3.4	Hex nut	8.3	Tube cover
3.5	Hex bolt	8.4	Guide roll with brake
4	Scissors large cpl	9	Wheel base cpl
4.1	Bolt	9.1	Rectangular tube
4.2	Scissors large	9.2	Hex bolt
4.3	Washer	9.3	Tube cover 90x40x4
4.4	Lock ring	9.4	Guide roll
4.5	Groove ball bearing	10	Base frame cpl
4.6	Hex nut	10.1	Axle under cylinder
4.7	Hex bolt	10.2	Base frame
4.8	Hex bolt	10.3	Locking ring
5	Support frame	11	Pressure fork cpl
6	Safety cap	11.1	Axle upper cylinder
6.1	Connecting plate	11.2	Pressure fork
6.2	Safety lever	11.3	Washer
6.3	Safety lever left	11.4	Locking ring
6.4	Allen® screw	11.5	Hex nut
7	Hydraulic box cpl	11.6	Hex bolt
7.1	Hydraulic box	12	Hydraulic cylinder

HT 600

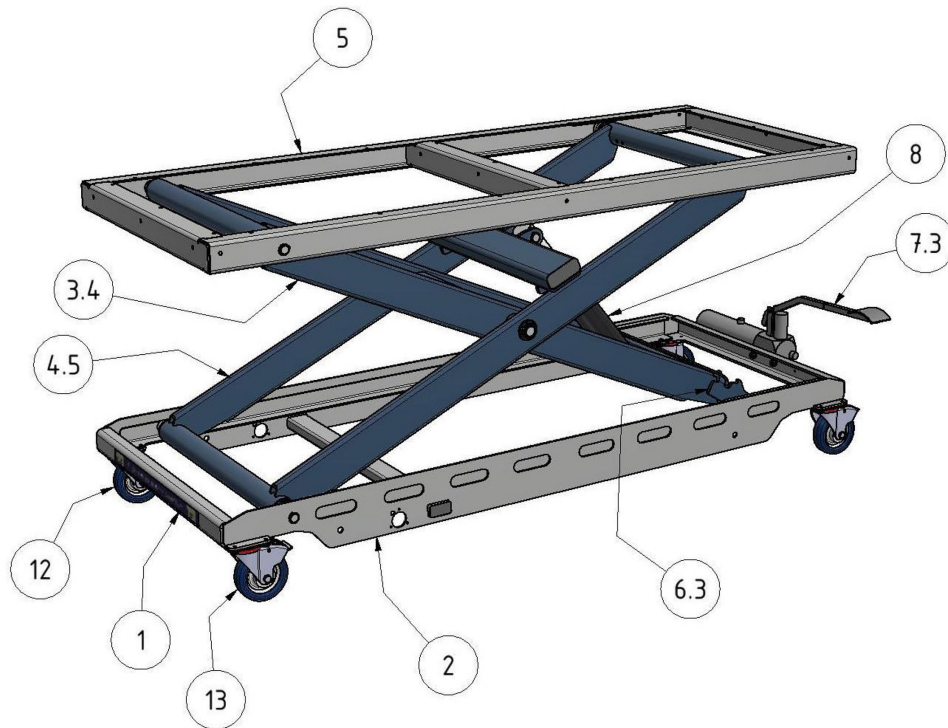


Fig. 17: Spare parts drawing HT 600

Pos.	Item number	Description	Pos.	Item number	Description
1	19 001 001 02	Sticker	4.4	19 160 030 04	Axle
2	19 160 011 00-AA	Base frame	4.5	19 160 031 00-AA	Scissors large
3	19 160 020 00-AA	Scissors small cpl	4.6	DIN 1850 - G - 22x32 x20	Bearing
3.1	19 160 020 01	Spacer	4.7	DIN 1850 - G - 28x32x30	Bearing
3.2	19 160 020 02	Axle under	4.8	DIN 471 - 20 x 1,2(1)	Locking ring
3.3	19 160 020 03	Axle under cylinder	4.9	DIN 471 - 22 x1,2(1)	Locking ring
3.4	19 160 021 00-AA	Scissors small	4.10	DIN 471 - 25 x1,2	Locking ring
3.5	DIN1850 - G - 22x32 x20	Bearing	4.11	DIN 471 - 28 x 1,5(1)	Locking ring
3.6	DIN 1850 - G - 28x32 x30	Bearing	4.12	DIN 625 T1-6304-2RS	Groove ball bearing
3.7	DIN 471 - 20 x1,2(1)	Locking ring	4.13	DIN 988 - 28 x 40 x 2	Fitted washer
3.8	DIN 471 - 22 x1,2(1)	Locking ring	4.14	Rohrdeckel 100x40x6	Tube cover 100x40x6
3.9	DIN 471 - 25 x 1,2	Locking ring	5	19 160 041 00	Support frame
3.10	DIN 625 T1-6304-2RS	Groove ball bearing	6	19 160 081 00	Safety latch
4	19 160 030 00-AA	Scissors large cpl	6.1	19 160 081 01	Connecting plate
4.1	19 160 020 01	Spacer	6.2	19 160 081 02	Safety lever right
4.2	19 160 030 01	Axle under	6.3	19 160 081 03	Safety lever left
4.3	19 160 030 02-AA	Axle	6.4	ISO 4762- M6 x10	Allen® screw

15 EU Declaration of Conformity

According to machine directive 2006/42/EC Annex II 1.A

Manufacturer/distributing company: Stürmer Maschinen GmbH
Dr.-Robert-Pfleger-Str. 26
D-96103 Hallstadt

hereby declares that the following product

Product group: Unicraft® Werkstatttechnik

Machine type: Lift Table

Designation of the machine*:	<input type="checkbox"/> HT 300 S	Item number*:	<input type="checkbox"/> 6100300
	<input type="checkbox"/> HT 300 M		<input type="checkbox"/> 6100310
	<input type="checkbox"/> HT 300 M PSR		<input type="checkbox"/> 6100315
	<input type="checkbox"/> HT 300 L		<input type="checkbox"/> 6100320
	<input type="checkbox"/> HT 300 L LAP		<input type="checkbox"/> 6100325
	<input type="checkbox"/> HT 600		<input type="checkbox"/> 6100600
	<input type="checkbox"/> HT 600 LAP		<input type="checkbox"/> 6100605

Serial number*: _____

Year of manufacture*: 20____

*Fill in these fields according to the information on the type plate

complies with the relevant, fundamental safety and health requirements of the above-mentioned EC Directive and the other directives applied (hereinafter) - including their amendments valid at the time of the declaration - due to its conception and design, as well as in the version placed on the market by us.

The following harmonized standards were applied:

EN ISO 12100:2011-03	Safety of machines - General principles of design - Risk evaluation and risk reduction
EN 1570-1:2011+A1:2014	Safety requirements for lifting tables - Part 1: Lifting tables serving up to two fixed landings.

Person responsible for the documentation: Kilian Stürmer, Stürmer Maschinen GmbH,
Dr.-Robert-Pfleger-Str. 26, D-96103 Hallstadt

Hallstadt, 28.10.2019



Kilian Stürmer
Manager



